

## Global Hawk #872 08/24/16 - 08/25/16

### Aircraft:

[Global Hawk #872 \(See full schedule\)](#)

### Flight Number:

872-0170

### Payload Configuration:

NOAA SHOUT HRR

### Nav Data Collected:

Yes

### Total Flight Time:

23.9 hours

### Submitted by:

Frank Cutler on 08/25/16

### Flight Segments:

<b>From:</b>	KWFF	<b>To:</b>	KWFF
<b>Start:</b>	08/24/16 10:07 Z	<b>Finish:</b>	08/25/16 09:59 Z
<b>Flight Time:</b>	23.9 hours		
<b>Log Number:</b>	<a href="#">16H004</a>	<b>PI:</b>	Gary Wick
<b>Funding Source:</b>	Robbie Hood - NOAA - UAS Program Manager		
<b>Purpose of Flight:</b>	Science		

### Comments:

SHOUT 2016 Hurricane Rapid Response Begins with First Science Flight  
 NASA & NOAA Global Hawk 24 Hour Flight Leads to Classification of  
 Hurricane Gaston NOAA UAS Program's Sensing Hazards with Operational  
 Unmanned Technology (SHOUT) is exploring the use of flying High Altitude  
 Long Endurance (HALE) UAS, such as NASA's Global Hawk, to collect  
 weather data from hurricanes. On its third year, the SHOUT team is testing  
 the value of using unmanned aircraft to provide weather data to improve  
 hurricane forecasts and be available as a satellite gap data provider in an  
 operational mode. LCDR Jon Neuhaus, NOAA, safely landed the Global  
 Hawk completing SHOUT Hurricane Rapid Response (HRR) Science Flight  
 #1 at 0559 EDT August 25th after a 24 hour flight. A day earlier, NOAA's CO-  
 Principle Investigators Gary Wick and Jason Dunion, Dave Fratello (Global  
 Hawk Payload Manager), were in the Global Hawk Operations Center for the  
 0607 EDT August 24th launch from NASA Wallops which began the SHOUT  
 HRR Campaign. During this first event using data from the 75th dropsonde  
 (out of a total of 84 dropped) launched from the Global Hawk's AVAPS, the  
 National Hurricane Center evaluated the real-time data to upgrade GASTON  
 to the third hurricane of the Atlantic Season: HURRICANE GASTON  
 TROPICAL CYCLONE UPDATE NWS NATIONAL HURRICANE CENTER  
 MIAMI FL AL072016 1215 AM AST THU AUG 25 2016 ...GASTON  
 BECOMES THE THIRD HURRICANE OF THE ATLANTIC SEASON...  
 Dropsonde data from a NASA/NOAA Global Hawk mission indicate that  
 Gaston has strengthened to a hurricane. The maximum winds are estimated  
 to be 75 mph (120 km/h) with higher gusts. SUMMARY OF 1215 AM  
 AST...0415 UTC...INFORMATION -----  
 LOCATION...18.7N 42.2W ABOUT 1215 MI...1955 KM W OF THE CABO  
 VERDE ISLANDS MAXIMUM SUSTAINED WINDS...75 MPH...120 KM/H  
 PRESENT MOVEMENT...NW OR 310 DEGREES AT 17 MPH...28 KM/H  
 MINIMUM CENTRAL PRESSURE...988 MB...29.47 INCHES \$\$ Forecaster  
 Berg

### Flight Hour Summary:

	16H004	17H006
<b>Flight Hours Approved in SOFRS</b>	220	
<b>Flight Hours Previously Approved</b>		54
<b>Total Used</b>	166	73.2
<b>Total Remaining</b>		-19.2

### 17H006 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
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<a href="#">10/05/16 - 10/06/16</a>	872-0177	Science	24.7	24.7	29.3
<a href="#">10/07/16 - 10/08/16</a>	872-0178	Science	23.7	48.4	5.6
<a href="#">10/09/16 - 10/10/16</a>	872-0179	Science	24.8	73.2	-19.2

**Source URL:** [https://airbornescience.nasa.gov/flight\\_reports/Global\\_Hawk\\_872\\_08\\_24\\_16\\_-\\_08\\_25\\_16](https://airbornescience.nasa.gov/flight_reports/Global_Hawk_872_08_24_16_-_08_25_16)

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Page Last Updated: April 22, 2017

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*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

16H004 Flight Reports					
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
<a href="#">07/27/16</a>	872-0168	Check	4.9	4.9	215.1
<a href="#">08/19/16</a>	872-0169	Ferry	10.3	15.2	204.8
<a href="#">08/24/16 - 08/25/16</a>	872-0170	Science	23.9	39.1	180.9
<a href="#">08/26/16 - 08/27/16</a>	872-0171	Science	23.8	62.9	157.1
<a href="#">08/29/16 - 08/30/16</a>	872-0172	Science	23.8	86.7	133.3
<a href="#">09/01/16 - 09/02/16</a>	872-0173	Science	22.8	109.5	110.5
<a href="#">09/22/16 - 09/23/16</a>	872-0174	Science	24	133.5	86.5
<a href="#">09/24/16 - 09/25/16</a>	872-0175	Science	22.8	156.3	63.7
<a href="#">09/28/16</a>	872-0176	Ferry	9.7	166	54